



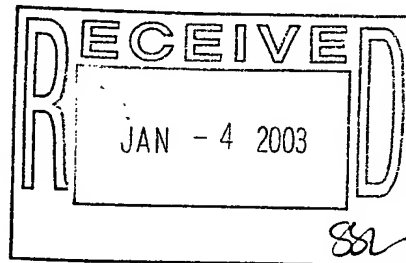
DOCKET NO.: G-101US05REG
APPLICANTS: Cohen & Chumakov
SERIAL NO.: 10/051,681
FILED : January 16, 2002

December 16, 2002

CONF. NO.: 1458

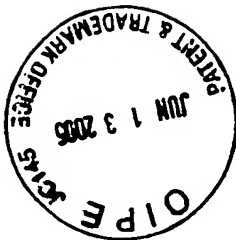
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2. PTO/SB/08A & B (10 pages)
References Listed Thereon (US 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)



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			Application Number	10/051.681	
Sheet	1	of	10	Filing Date	January 16, 2002
				First Named Inventor	D. COHEN, et al.
				Art Unit	1645
				Examiner Name	Unassigned
				Attorney Docket Number	101.US5.REG

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	US- 6.184.218 B1	02/06/2001	Evenden, et al.	
	U2	US- 6.218.544 B1	04/17/2001	Li, et al.	
	U3	US- 6.214.846 B1	04/10/2001	Elliott	
	U4	US- 6.232.326	05/15/2001	Nelson	
	U5	US- 6.174.909	01/16/2001	Falch, et al.	
	U6	US- 5.965.571	10/12/1999	Hutchinson	
	U7	US- 5.610.195	03/11/1997	Frei, et al.	
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	F1	WO 00/22122 A2	04/20/2000	Genset		
	F2	WO 01/40493 A2	06/07/2001	Genset		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/051.681
		Filing Date	January 16, 2002
		First Named Inventor	D. COHEN, et al.
		Group Art Unit	1645
		Examiner Name	Unassigned
		Attorney Docket Number	101.US5.REG
Sheet	2	of	10

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	R1	ALSTON, T, et al. "Suicide inactivation of D-amino acid oxidase by 1-chloro-1-nitroethane"; The Journal of Biological Chemistry, Vol 258, N°2 : 1136-41, January 25, 1983	
	R2	BARAM, T, and al. "CRH gene expression in the fetal rat is not increased after pharmacological adrenalectomy"; Neuroscience Letters, Vol 142 : 215-8, 1992	
	R3	BARANANO, D, et al. "Atypical neural messengers"; Trends in Neurosciences, Vol 24, N°2 : 99-106, February 2001	
	R4	BRACHET, P, et al. "Kinetics of the inhibition of hog kidney D-amino acid oxidase by short-, medium- and long-chain fatty acids"; Biochemistry International, Vol 22, N°5 : 837-42, December 1990	
	R5	CHUN, W, et al. "Tissue transglutaminase selectively modifies proteins associated with truncated mutant Huntingtin in intact cells"; Neurobiology of Disease, Vol 8 : 391-404, 2001	
	R6	D'ANIELLO, A, et al. "Biological role of D-amino acid oxidase and D-aspartate oxidase effects of D-amino acids"; The Journal of Biological Chemistry, Vol 268, N°36 : 26941-9, December 25, 1993	
	R7	D'ANIELLO, A, et al. "Further study on the specificity of D-amino acid oxidase and of D-aspartate oxidase and time course for complete oxidation of D-amino acids"; Comp. Biochem. Physiol., Vol 105B, N°3/4 : 731-4, 1993	
	R8	DIXON, M, et al. "D-amino acid oxidase - I. Dissociation and recombination of the holoenzyme"; Biochimica et Biophysica Acta, Vol 96 : 357-67, 1965	
	R9	D'SILVA, C, et al. "Identification of methionine-110 as the residue covalently modified in the electrophilic inactivation of D-amino acid oxidase by O-(2,4-dinitrophenyl) hydroxylamine"; Biochemistry, Vol 26 : 1717-22, 1987	
	R10	DODT, G, et al. "The human L-pipecolic acid oxidase is similar to bacterial monomeric sarcosine oxidases rather than D-amino acid oxidases"; Cell Biochemistry and Biophysics, Vol 32 : 313-6, 2000	
	R11	FERTI, C, et al. "Reactivity of D-amino acid oxidase with 1,2-cyclohexanedione : evidence for one arginine in the substrate-binding site". Eur J Biochem, Vol 119 : 553-7, 1981	

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	R12	FONDA, M, et al. "D-amino acid oxydase"; The Journal of Biological Chemistry, Vol 243, N°8 : 1931-5, April 25, 1968	
	R13	KRAUS, JL, et al. "Tetrazole isosteres of biologically active acids and the effects on enzymes"; Research Communications in Chemical Pathology and Pharmacology, Vol 83, N°2 : 209-22, February 1994	
	R14	GADDA, G, et al. "Characterization of 2-oxo-3-pentynoate as an active-site-directed inactivator of flavoprotein oxidases : identification of active-site peptides in tryptophan 2-monooxygenase"; Biochemistry, Vol 38 : 5822-28, 1999	
	R15	GADDA, G, et al. "Chemical modification of lysyl residues of Rhodotorula gracilis D-amino acid oxidase"; Biochemistry and Molecular Biology International, Vol 33, N°5, 947-55, August 1994	
	R16	HAMILTON, G, et al. "The inhibition of mammalian D-amino acid oxidase by metabolites and drugs. Inferences concerning physiological function"; Bioorganic Chemistry, Vol 11 : 350-70, 1982	
	R17	HASHIMOTO, A, et al. "Free D-aspartate and D-serine in the mammalian brain and periphery"; Progress in Neurobiology, Vol 52 : 325-53, 1997	
	R18	HASHIMOTO, A, et al. "Free D-serine, D-aspartate and D-alanine in central nervous system and serum in mutant mice lacking D-amino acid oxidase"; Neuroscience Letters, Vol 152 : 33-6, 1993	
	R19	HASHIMOTO, A, et al. "Embryonic development and postnatal changes in free D-aspartate and D-serine in the human prefrontal cortex"; Journal of Neurochemistry, Vol 61 : 348-51, 1993	
	R20	HORIIKE, K, et al. "Interaction between D-amino acid oxidase and small molecules"; Journal of Biochemistry, Vol 80 : 1073-83, 1976	
	R21	HUANG, J, et al. "Hepatocyte-catalysed detoxification of cyanide by L- and D-cysteine"; Biochemical Pharmacology, Vol 55 : 1983-90, 1998	
	R22	KAPOOR R, et al. "Distribution of D-amino acid oxidase (DAO) activity in the medulla and thoracic spinal cord of the rat : implications for a role for D-serine in autonomic function"; Brain Research, Vol 771 : 351-55, 1997	

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Examiner Name		Unassigned	
Attorney Docket Number		101.US5.REG	

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	R23	KONNO, R, et al. "Mouse mutant deficient in D-amino acid oxidase activity"; Genetics, Vol 103 : 277-85, February 1983	
	R24	MARCOTTE, P, et al. "Sequence of reactions which follows enzymatic oxidation of allylglycine"; Biochemistry, Vol 17, N° 26 : 5620-6, 1978	
	R25	MARCOTTE, P, et al. "Vinylglycine and propargylglycine : complementary suicide substrates for L-amino acid oxidase and D-amino acid oxidase"; Biochemistry, Vol 15, N°14 : 3070-5, 1976	
	R26	MASSEY, V, et al. "On the interpretation of the absorption spectra of flavoproteins with special reference to D-amino acid oxidase"; Biochemistry, Vol 4, N°6 : 1161-73, June 1965	
	R27	ROBINSON, JM, et al. "Localization of D-amino acid oxidase on the cell surface of human polymorphonuclear leukocytes"; J Cell Biology, Vol 77 : 59-71 1978	
	R28	MATTEVI, A "The PHBH fold : not only flavoenzymes"; Biophysical Chemistry, Vol 70 : 217-22, 1988	
	R29	MATTEVI, A, et al. "Crystal structure of D-amino acid oxidase : a case of active site mirror-image convergent evolution with flavocytochrome b2"; Proc. Natl. Acad. Sci. USA, Vol 93 : 7496-501, July 1996	
	R30	MELDRUM, BS, et al. "Proconvulsant, convulsant and other actions of the D- and L-stereoisomers of allylglycine in the photosensitive baboon, papio papio"; Electroencephalography and Clinical Neurophysiology, Vol 47 : 383-95, 1979	
	R31	MIHALIK, S, et al. "L-pipecolic acid oxidation in the rabbit and cynomolgus monkey"; The Journal of Biological Chemistry, Vol 264, N°5 : 2509-17, February 15, 1989	
	R32	MIURA, R, et al. "Studies on the reaction of D-amino acid oxidase with beta-cyano-D-alanine"; J Biochem, Vol 87, N°5 : 1469-81, 1980	
	R33	MIURA, R, et al. "C-NMR studies of porcine kidney D-amino acid oxidase reconstituted with C-enriched flavin adenine dinucleotide. Effects of competitive inhibitors"; J Biochem, Vol 101, N°3 : 581-9, 1987	

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	R34	MIYANO, M, et al. "Studies on Phe-228 and Leu-307 recombinant mutants of porcine kidney D-amino acid oxidase : expression, purification and characterization"; J. Biochem, Vol 109, N°1 : 171-7, 1991	
	R35	MORENO, JA, et al. "Inhibition of D-amino acid oxidase by alpha-keto acids analogs of amino acids"; Enzyme and Microbial Technology, Vol 18 : 379-82, 1996	
	R36	MOSES, J, et al. "Sodium benzoate differentially blocks circling induced by D- and L- dopa in the hemi-parkinsonian rat"; Neuroscience Letters, Vol 218 : 145-8, 1996	
	R37	SHIN-ISHI, N, et al. "High-dose ketamine does not induce c-Fos protein expression in rat hippocampus"; Neuroscience Letters, Vol 151 : 33-6, 1993	
	R38	NEGRI, A, et al. "The kinetic mechanism of beef kidney D-aspartate oxidase"; The Journal of Biological Chemistry, Vol 263 : 13557-63, September 25, 1988	
	R39	NISHINO, T, et al. "Chemical modifications of D-amino acid oxidase"; The Journal of Biological Chemistry, Vol 255, N°8 : 3610-6, April 25, 1980	
	R40	NISHINA, Y, et al. "Substrate recognition and activation mechanism of D-amino acid oxidase : a study using substrate analogs"; J. Biochem, Vol 128, N°2 : 213-23, 2000	
	R41	PORTER, D, et al. "Active site chlorination of D-amino acid oxidase by N-chloro-D-leucine"; The Journal of Biological Chemistry, Vol 251, N°19 : 6150-3, October 10, 1976	
	R42	RAMON, F, et al. "Chemical mechanism of D-amino acid oxidase from Rhodotorula gracilis : pH dependence of kinetic parameters"; Biochem. J., Vol 330 : 311-4, 1998	
	R43	RICCI, G, et al. "Interaction between 1,4-thiazine derivatives and D-amino-acid oxidase"; Biochimica et Biophysica Acta, Vol 748 : 40-7, 1983	
	R44	SCHILL, M, et al. "D-aspartate localizations imply neuronal and neuroendocrine roles"; Proc. Natl. Acad. Sci. USA, Vol 94 : 2013-8, March 1997	

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	R45	SCHELL, M, et al. "D-serine as a neuromodulator : regional and developmental localizations in rat brain glia resemble NMDA receptors"; The Journal of Neuroscience, Vol 17, N°5 : 1604-15, March 1, 1997	
	R46	SETOYAMA, C, et al. "Structural and functional characterization of the human brain D-aspartate oxidase"; J. Biochem, Vol 121, N°4 : 798-803, 1997	
	R47	SNYDER, SH, et al. "D-amino acids as putative neurotransmitters : focus on D-serine"; Neurochemical Research, Vol 25, N°5 : 553-60, 2000	
	R48	SWENSON, RP, et al. "Methylation of the active center histidine 217 in D-amino acid oxidase by Methyl-p-nitrobenzenesulfonate"; The Journal of Biological Chemistry, Vol 259, N°9 : 5585-90, May 10, 1984	
	R49	SWENSON, RP, et al. "Chemical modification of D-amino acid oxidase"; The Journal of Biological Chemistry, Vol 257, N°4 : 1937-44, February 25, 1982	
	R50	TANAKA, F, et al. "Interaction of steroids with D-amino acid oxidase"; Biochimica et Biophysica Acta, Vol 522 : 43-8, 1978	
	R51	VAMECQ, J, et al. "Inhibition of peroxisomal fatty acyl-CoA oxidase by antimycin A"; Biochem J., Vol 248 : 603-7, 1987	
	R52	VAN VELDHOFEN, P, et al. "D-aspartate oxidase, a peroxisomal enzyme in liver of rat and man"; Biochimica et Biophysica Acta, Vol 1073 : 203-8, 1991	
	R53	WANG, H, et al. "Regulation of rat magnocellular neurosecretory system by D-aspartate : evidence for biological role(s) of a naturally occurring free D-amino acid in mammals"; Journal of Endocrinology, Vol 167 : 247-52, 2000	
	R54	WATANABE, F, et al. "Site-specific mutagenesis of lysine-204, tyrosine-224, tyrosine-228, and histidine-307 of porcine kidney D-amino acid oxidase and the implications as to its catalytic function"; J. Biochem, Vol 105, N°6 : 1024-9, 1989	
	R55	WINSTEAD, JA, et al. "Gamma-irradiated flavin adenine dinucleotide : a D-amino acid oxidase inhibitor"; Radiation Research, Vol 52 : 520-7, 1972	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/051.681
		Filing Date	January 16, 2002
		First Named Inventor	D. COHEN, et al.
		Group Art Unit	1645
		Examiner Name	Unassigned
		Attorney Docket Number	101.US5.REG
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	R56	AMERY, L, et al. "C-terminal tripeptide Ser-Asn-Leu (SNL) of human D-aspartate oxidase is a functional peroxisome-targeting signal"; Biochem J, Vol 336 : 367-71, 1998 - ABSTRACT	
	R57	ARMATI, PJ, et al. "A new medium for in vitro peripheral nervous tissue myelination without the use of antimetabolites"; J Neurosci Methods, Vol 33 (2-3) : 149-55, 1990 - ABSTRACT	
	R58	ARNOLD, G, et al. "Ultrastructural localization of D-amino acid oxidase in microperoxisomes of the rat nervous system"; J Histochem Cytochem, Vol 27(3) : 735-45, 1979 - ABSTRACT	
	R59	ASSI, AA, et al. "An in vitro and in vivo study of some biological and biochemical effects of Sistrurus Malaris Barbours venom"; Toxicology, Vol 137(2) : 81-94, 1999 - ABSTRACT	
	R60	BEARD, ME "D-aspartate oxidation by rat and bovine renal peroxisomes : an electron microscopic cytochemical study"; J Histochem Cytochem, Vol 38(9) : 1377-81, 1990 - ABSTRACT	
	R61	CIMINI, AM, et al. "Presence of heterogeneous peroxisomal populations in the rat nervous tissue"; Biochim Biophys Acta, Vol 1425(1) : 13-26, 1998 - ABSTRACT	
	R62	COOPER, AJ, et al. "Inhibition of glutamate-aspartate transaminase by beta-methylene-DL-aspartate"; Biochem Pharmacol, Vol 32(4) : 679-89, 1983 - ABSTRACT	
	R63	D'ANIELLO, G, et al. "The role of D-aspartic acid and N-methyl-D-aspartic acid in the regulation of prolactin release"; Endocrinology, Vol 141(10) : 3862-70, 2000 - ABSTRACT	
	R64	D'ANIELLO, G, et al. "Occurrence of free D-aspartic acid in the circumoesophageal ganglia of Aplysia fasciata"; Life Sci, Vol 52(8) : 733-6, 1993 - ABSTRACT	
	R65	DE MORAES, GH, et al. "Effects of D-amino acids on growth rate and kidney D-amino acid oxidase in chicks"; Poult Sci, Vol 66(1) : 98-102, 1987 - ABSTRACT	
	R66	FISHER, GH, et al. "Quantification of D-aspartate in normal and Alzheimer brains"; Neurosci Lett, Vol 143(1-2) : 215-8, 1992 - ABSTRACT	

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	R67	GILBERT, SF, et al. "Selective culture medium enhances survival of neuroblasts from postnatal rodent brain"; Brain Res Bull, Vol 16(6) : 853-60, 1986 - ABSTRACT	
	R68	HASHIMOTO, A, et al. "Anatomical distribution and postnatal changes in endogenous free D-aspartate and D-serine in rat brain and periphery"; Eur J Neurosci, Vol 7(8) : 1657-63, 1995 - ABSTRACT	
	R69	HASHIMOTO, A, et al. "Embryonic development and postnatal changes in free D-aspartate and D-serine in the human prefrontal cortex"; J Neurochem, Vol 61(1) : 348-51, 1993- ABSTRACT	
	R70	NARDINI, M, et al. "Detection of 2H-1,4-thiazine-5,6-dihydro-3-carboxylic acid (aminoethylcystine ketimine) in the bovine brain"; Biochem Biophys Res Commun, Vol 166(3) : 1251-6, 1990 - ABSTRACT	
	R71	NEGRI, A, et al. "D-aspartate oxidase from beef kidney. Purification and properties"; J Biol Chem, Vol 262(21) : 10026-34, 1987 - ABSTRACT	
	R72	NEGRI, A, et al. "Purification of beef kidney D-aspartate oxidase overexpressed in Escherichia coli and characterization of its redox potentials and oxidative activity towards agonists and antagonists of excitatory amino acid receptors"; Biochim Biophys Acta, Vol 1431(1) : 212-22, 1999 - ABSTRACT	
	R73	PERRY, RH, et al. "Cortical neuropathological and neurochemical substrates of Alzheimer's and Parkinson's diseases"; J Neural Trans Suppl, Vol 24:131-6, 1987 - ABSTRACT	
	R74	SHAPIRA, R, et al. "Neuritic plaque amyloid in Alzheimer's disease is highly racemized"; J Neurochem, Vol 50(1) : 69-74, 1988 - ABSTRACT	
	R75	SIKORA, L, et al. "Regulation of L-amino acid oxidase and of D-amino acid oxidase in Neurospora crassa"; Mol Gen Genet, Vol 186(1) : 33-9, 1982 - ABSTRACT	
	R76	TAKATSUKA, H, et al. "Molecular characterization of L-amino acid oxidase from Agkistrodon halys blomhoffii with special reference to platelet aggregation"; Biochim Biophys Acta, Vol 1544(1-2) : 267-77, 2001 - ABSTRACT	
	R77	TEDESCHI, G, et al. "D-aspartate oxidase is present in ovaries, eggs and embryos but not in testis of Xenopus laevis"; Comp Biochem Physiol B Biochem Mol Biol, Vol 124(4) : 489-94, 1999 - ABSTRACT	

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			First Named Inventor	D. Cohen <i>et al.</i>	
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	R78	TEDESCHI, G. <i>et al.</i> , "Properties of the flavoenzyme D-aspartate oxidase from Octopus vulgaris", <i>Biochim Biophys Acta</i> , Vol. 1207(2): 217-22 (1994) - ABSTRACT		
	R79	TORII, S. <i>et al.</i> , "Molecular cloning and functional analysis of apoxin I, a snake venom-derived apoptosis-inducing factor with L-amino acid oxidase activity", <i>Biochemistry</i> , Vol. 39(12): 3197-205 (2000) - ABSTRACT		
	R80	WAKE, K. <i>et al.</i> , "Exaggerated responses to chronic nociceptive stimuli and enhancement of N-methyl-D-aspartate receptor-mediated synaptic transmission in mutant mice lacking D-amino-acid oxidase", <i>Neurosci. Lett.</i> , Vol. 297(1): 25-8 (2001) - ABSTRACT		
	R81	YAMADA, R., <i>et al.</i> , "Purification and properties of D-aspartate oxidase from <i>Cryptococcus humicola</i> UJ1", <i>Biochim Biophys Acta</i> , Vol. 1294(2): 153-8 (1996) - ABSTRACT		
	R82	BARKER, R. <i>et al.</i> , "The genetic and biochemical proprieties of the D-amino acid oxidases in human tissues", <i>Ann. Hum. Genet.</i> , 41(1): 27-42 (1997), Accession No. 004032.		
	R83	MOMOI, K. <i>et al.</i> , "Molecular cloning and sequence analysis of kidney D-amino acid oxidase", <i>FEBS Lett.</i> , 238: 180-184 (1988), Accession No. P14920.		
	R84	SETOYAMA, C. <i>et al.</i> , "Structural and functional characterization of the human brain D-aspartate oxidase", <i>J. Biochem.</i> , 121(4): 798-803 (1997), Accession No. JC5438.		
	R85	CRUZ, L.J. <i>et al.</i> , "Mutual antagonism in the metabolism of D-valine and D-leucine and antagonism by their analogs", <i>Arch Biochem Biophys.</i> , 1969, 135(1):341-9, PubMed, PMID: 4391341.		
	R86	DE KOK, A. <i>et al.</i> , "Studies on L-amino acid oxidase. I. Effects of pH and competitive inhibitors", <i>Biochim Biophys Acta</i> , 1968, 167(1): 35-47, PubMed, PMID: 5693709.		
	R87	DE MARCHI, W.J. <i>et al.</i> , "The oxidation of glycine by D-amino acid oxidase in extracts of mammalian central nervous tissue", <i>J Neurochem.</i> , 1969, 16(3):355-61. PubMed, PMID: 4389537.		
	R88	MCFARLANE, I.G. <i>et al.</i> , "Metabolism of leucine in protein-calorie-deficient rats", <i>Biochem J.</i> , 1969, 111(4):565-71, PubMed, PMID: 4388242.		
	R89	MECHER, T. <i>et al.</i> , "Presence of L-amino-acid oxidase in the blood in pemphigus, dermatitis herpetiformis Dühring and herpes zoster", <i>Clin. Chim. Acta</i> , 1969, 24(1): 111-20, PubMed, PMID: 5780154.		

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	R90	MIZON, J. <i>et al.</i> , "Properties of turkey (<i>Meleagris gallopavo</i> L.) liver L-amino acid oxidase", <i>Biochim Biophys Acta</i> , 1970, 212(1):33-42 [article in French], PubMed, PMID 5500943.	
	R91	NEIMS, A.H. <i>et al.</i> , "Distribution of D-amino acid oxidase in bovine and human nervous tissues", <i>J Neurochem</i> , 1966, 13(3):163-8, PubMed, PMID: 4380208.	
	R92	NISHIKIMI, M. <i>et al.</i> , "The occurrence of superoxide anion in the reaction of reduced phenazine methosulfate and molecular oxygen", <i>Biochem Biophys Res Commun.</i> , 1972, 46(2):849-54, PubMed, PMID: 4400444.	
	R93	SHINWARI, M.A. <i>et al.</i> , "Naturally occurring inhibition and activation of avian liver L-amino acid oxidase", 1967, 104(3): 53P – 54P, PubMed, PMID: 6049890.	
	R94	SINGER, S. <i>et al.</i> , "The effects of the administration of sodium benzoate and diethylstilbestrol disulfate on the hepatic levels of several glucocorticoid-sensitive enzymes in adrenalectomized rats", <i>Biochim Biophys Acta</i> , 1967, 146(2):443-51, PubMed, PMID: 4383683.	
	R95	SIVA SANKAR, D.V. <i>et al.</i> , "The effect of chlorpromazine and of oxygen on the substrate-inhibition of L-amino acid oxidase", <i>Biochem. Med.</i> , 1975(1): 75-82, PubMed, PMID: 1212242.	
	R96	ZELLER, E.A. <i>et al.</i> , "Interaction of ophidian L-amino acid oxidase with its substrates and inhibitors: role of molecular geometry and electron distribution. Communication 6 on ophidian L-amino acid oxidases", <i>Helv. Chim. Acta</i> , 1974;57(8): 2406-20, PubMed, PMID: 4443288.	
	R97	ZIMMERMAN, S.E. <i>et al.</i> , "Immunochemical studies of L-amino acid oxidase", <i>Biochim Biophys Acta</i> , 1971, 229(1):260-70, PubMed, PMID: 5543611.	
	R98		
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	R101		

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